

Uroplakin (ZM204)

Format	Catalog No.	Pack size	Dilution
Concentrated	G2522 A, B, C	0.1, 0.5, 1.0 mL	1:100
Prediluted	G2522 AA, BB	6.0, 3.0 mL	Ready to use

SPECIES: Mouse

IMMUNOGEN: Recombinant fragment (around aa 114-173) of human Uroplakin 1A (UPK1A) protein; recombinant fragment (around aa 109-229) of human Uroplakin 1B (UPK1B)

CLONE: ZM204

ISOTYPE: IgG2b / κ + IgG1 / κ

FORMAT: This antibody is intended for research use only (RUO) use. Uroplakin (ZM204) Mouse monoclonal Primary Antibody is intended for professional laboratory use in the detection of the Uroplakin protein in formalin-fixed, paraffin-embedded tissue stained in manual qualitative immunohistochemistry (IHC) testing.

SPECIFICITY – Antibody as Purified antibody diluted in Tris-HCl buffer containing stabilizing protein and <0.1% Proclin.

BACKGROUND –

This gene encodes a protein that belongs to the transmembrane 4 superfamily, also referred to as the tetraspanin family. The majority of these proteins are cell-surface proteins with four hydrophobic domains, and they mediate signal transduction events that regulate cell development, activation, growth, and motility. The encoded protein is located in the asymmetrical unit membrane (AUM), where it can complex with other transmembrane 4 superfamily proteins. It may be involved in normal bladder epithelial physiology, possibly controlling the permeability of superficial umbilical cells or stabilising the apical membrane through interactions between the AUM and cytoskeleton. The protein may also be involved in tumour suppression.

SPECIES REACTIVITY : Human. Others not known

POSITIVE CONTROL : Bladder or urothelial carcinoma

CELLULAR LOCALIZATION : Cytoplasmic and membranous

TITER/WORKING DILUTION : Immunohistochemistry (Frozen and Formalin-fixed): 1:50-1:100

Flow Cytometry: 5-10 μ l/million cells

Immunofluorescence: 1:50-1:100

Western Blotting: 1:100-1:200

MICROBIOLOGICAL STATE : This product is not sterile.

LIMITATIONS AND USES:

1. Not to be consumed internally.
2. For Research Use Only
3. This product is designed for qualitative immunohistochemistry using formalin-fixed, paraffin-embedded



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4. tissue sections from both normal and malignant tissues, which will be examined under a light microscope.
5. If the reagent gets hazy, don't use it.
6. Never use after the expiration date.
7. When working with reagents, exercise caution.
8. Not sterile.

Materials Required but not Provided

1. Positive Tissue Control: Routinely processed, neutral buffered formalin-fixed, paraffin-embedded Bladder or urothelial carcinoma
2. Negative tissue control (internal or external)
3. Microscope slides and coverslips
4. Staining jars or baths
5. Timer Instructions for Use (IFU)
6. Xylene or xylene substitute
7. Ethanol or reagent alcohol
8. Deionized or distilled water
9. Heating equipment or enzyme for tissue pretreatment step
10. Detection system
11. Chromogen
12. Wash Buffer
13. Hematoxylin
14. Antibody diluents
15. Peroxide Block
16. Light Microscope
17. Mounting medium
18. Avidin-Biotin Blocking Reagents for use with streptavidin biotin detection

PROCEDURE –

1. **Tissue Section Pretreatment (Necessary):** Citrate Plus pretreatment greatly improves the staining of tissue slices that have been paraffin embedded and fixed with formalin.
2. **Incubation Time for Primary Antibody:** We recommend 30 minutes at room temperature for incubation.
However, the user should choose the best incubation time based on the staining system used and the fixing circumstances.
3. **Visualisation:** To get the highest staining intensity, we advise combining the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" with the "HRP Anti-Polyvalent".

PRECAUTIONS –

1. Contains 0.09% w/v sodium azide as a preservative.
2. Avoid pipetting by mouth.
3. Reagents and specimens should not come into touch with skin or mucous membranes.



4. Prevent reagent contamination by microorganisms, as this could lead to an increase in nonspecific staining.
5. There are no dangerous materials in this product.

TECHNICAL SUPPORT

For technical assistance, please contact Genebio Solution's Technical Support at www.genebiosolution.com



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